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    NEWS 1   ·   Web Page for STN Seminar Schedule - N. America
    NEWS 2   JUL 02   LMEDLINE coverage updated
    NEWS 3   JUL 02   SCISEARCH enhanced with complete author names
    NEWS 4   JUL 02   CHEMCATS accession numbers revised
    NEWS 5   JUL 02   CA/CAplus enhanced with utility model patents from China
    NEWS 6   JUL 16   CAplus enhanced with French and German abstracts
    NEWS 7   JUL 18   CA/CAplus patent coverage enhanced
    NEWS 8   JUL 26   USPATFULL/USPAT2 enhanced with IPC reclassification
    NEWS 9   JUL 30   USGENE now available on STN
    NEWS 10   AUG 06   CAS REGISTRY enhanced with new experimental property tags
    NEWS 11   AUG 06   BEILSTEIN updated with new compounds
    NEWS 12   AUG 06   FSTA enhanced with new thesaurus edition
    NEWS 13   AUG 13   CA/CAplus enhanced with additional kind codes for granted
                       patents
    NEWS 14   AUG 20   CA/CAplus enhanced with CAS indexing in pre-1907 records
    NEWS 15   AUG 27   Full-text patent databases enhanced with predefined
                       patent family display formats from INPADOCDB
    NEWS 16   AUG 27   USPATOLD now available on STN
    NEWS 17   AUG 28   CAS REGISTRY enhanced with additional experimental
                       spectral property data
    NEWS 18   SEP 07   STN AnaVist, Version 2.0, now available with Derwent
                       World Patents Index
    NEWS 19   SEP 13   FORIS renamed to SOFIS
    NEWS 20   SEP 13   INPADOCDB enhanced with monthly SDI frequency
    NEWS 21   SEP 17   CA/CAplus enhanced with printed CA page images from
                       1967-1998
    NEWS 22   SEP 17   CAplus coverage extended to include traditional medicine
                       patents

    NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
                  CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                  AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

    NEWS HOURS   STN Operating Hours Plus Help Desk Availability
    NEWS LOGIN   Welcome Banner and News Items
    NEWS IPC8   For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 20:40:44 ON 19 SEP 2007

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                       ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 20:40:50 ON 19 SEP 2007
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1
DICTIONARY FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

   Please note that search-term pricing does apply when
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on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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L1   STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 20:43:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   489 TO ITERATE

100.0% PROCESSED   489 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 8454 TO   11106
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

Updated Search

10547840

FULL SEARCH INITIATED 20:43:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   9762 TO ITERATE

100.0% PROCESSED   9762 ITERATIONS   1 ANSWERS
SEARCH TIME: 00.00.01

L3   1 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                            ENTRY   SESSION
FULL ESTIMATED COST   173.45   173.66

FILE 'HCAPLUS' ENTERED AT 20:43:18 ON 19 SEP 2007
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l3
L4   1 L3

=> d l4, ibib abs hitstr, 1

L4   ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:756694 HCAPLUS
DOCUMENT NUMBER: 141:277496
TITLE: Process for the preparation of substituted nicotinic
                         acid esters
INVENTOR(S):   Jackson, David Anthony; Bowden, Martin Charles
PATENT ASSIGNEE(S):   Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 98 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

      PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
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      WO 2004078729   A1   20040916   WO 2004-EP2291   20040305

Updated Search

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        W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
            BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
            MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
            GN, GQ, GW, ML, MR, NE, SN, TD, TG
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AU 2004218241	A1	20040916	AU 2004-218241		20040305
EP 1601653	A1	20051207	EP 2004-717574		20040305

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         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
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CN 1753872	A	20060329	CN 2004-80004908		20040305	
BR 2004008160	A	20060411	BR 2004-8160		20040305	
JP 2006519803	T	20060831	JP 2006-504564		20040305	
US 2006199964	A1	20060907	US 2005-547840		20050906	
IN 2005CN02175	A	20070831	IN 2005-CN2175		20050906	
PRIORITY APPLN. INFO.:			CH 2003-373	A	20030307	
			WO 2004-EP2291	W	20040305	

```
OTHER SOURCE(S):        MARPAT 141:277496
GI
```

```
AB  A process for the preparation of substituted nicotinic acid esters I [R =
    alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted
    alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy,
    cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO2, etc.], which process
    comprises reacting a compound of formula II [R3 = (cyclo)alkyl, R4and R4 are
    defined as above] with a compound of formula III (R, R1, R2 and X are
    defined as above) in an inert solvent in the presence of a proton source,
    is disclosed.  For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate
    with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-
    ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield.  Thus, the present
    invention provides a novel process producing the title compound at
    reasonable cost, in good yield and with good quality.
IT  757218-50-1P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation of nicotinic acid esters)
RN  757218-50-1  HCAPLUS
CN  2-Butenoic acid, 3-amino-4-(2-methoxyethoxy)-, ethyl ester (9CI)  (CA
    INDEX NAME)
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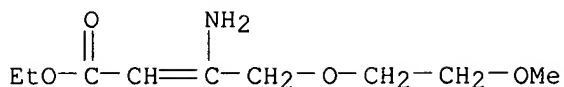
Updated Search

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$$EtO-\overset{\overset{\displaystyle O}{\|}}{C}-CH=\overset{\overset{\displaystyle NH_2}{|}}{C}-CH_2-O-CH_2-CH_2-OMe$$

REFERENCE COUNT: 6   THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                    ENTRY   SESSION
FULL ESTIMATED COST   7.87   181.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                    ENTRY   SESSION
CA SUBSCRIBER PRICE   -0.78   -0.78

FILE 'CAOLD' ENTERED AT 20:43:42 ON 19 SEP 2007
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification. Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966. TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

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  all substance data from the REGISTRY file. Enter HELP FIRST for
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=> d his

     (FILE 'HOME' ENTERED AT 20:40:44 ON 19 SEP 2007)

     FILE 'REGISTRY' ENTERED AT 20:40:50 ON 19 SEP 2007
L1   STRUCTURE UPLOADED
L2   0 S L1
L3   1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 20:43:18 ON 19 SEP 2007
L4   1 S L3

     FILE 'CAOLD' ENTERED AT 20:43:42 ON 19 SEP 2007

=> s l3
L5   0 L3

=> file hcaplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                    ENTRY   SESSION

Updated Search

10547840

FULL ESTIMATED COST   0.45   181.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                   ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -0.78

=> s jackson, d?/au and bowden, m?/au
          2880 JACKSON, D?/AU
           337 BOWDEN, M?/AU
L6   4 JACKSON, D?/AU AND BOWDEN, M?/AU

=> d 16, ibib abs hitstr, 1-4

L6   ANSWER 1 OF 4   HCAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1196196 HCAPLUS
DOCUMENT NUMBER: 143:459878
TITLE: Multi-step process for the production of cyclic
                           diketones
INVENTOR(S):   Jackson, David Anthony; Edmunds, Andrew;
                           Bowden, Martin Charles; Brockbank, Ben
PATENT ASSIGNEE(S):   Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 34 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
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        WO 2005105745   A1   20051110   WO 2005-EP4681   20050429
            W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
                LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,

Updated Search

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                NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
                SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
                ZM, ZW
           RW:  BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
                AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
                EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
                RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
                MR, NE, SN, TD, TG
      AU 2005238195          A1    20051110    AU 2005-238195              20050429
      EP 1756059             A1    20070228    EP 2005-741812              20050429
          R:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
      CN 1950339             A     20070418    CN 2005-80013706            20050429
      IN 2006CN04011         A     20070810    IN 2006-CN4011              20061101
PRIORITY APPLN. INFO.:                         CH 2004-765          A     20040430
                                               WO 2005-EP4681       W     20050429
OTHER SOURCE(S):           MARPAT 143:459878
```

AB   A multi-step process for the preparation of cyclic diketones [e.g.,
     4-(4-chlorophenylcarbonyloxy)bicyclo[3.2.1]oct-3-en-2-one] is presented.

```
REFERENCE COUNT:           19     THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

L6   ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1196142   HCAPLUS
DOCUMENT NUMBER: 143:459877
TITLE: Process for the production of cyclic diketones
INVENTOR(S):   Jackson, David Anthony; Edmunds, Andrew;
                           Bowden, Martin Charles; Brockbank, Ben
PATENT ASSIGNEE(S):   Syngenta Participations A.-G., Switz.; Syngenta
                           Limited
SOURCE: PCT Int. Appl., 28 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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      PATENT NO.            KIND   DATE        APPLICATION NO.             DATE
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      WO 2005105718         A2     20051110    WO 2005-EP4680              20050429
      WO 2005105718         A3     20060504
           W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
               GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
               LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
               NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
               SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
               ZM, ZW
           RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
               AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
               EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
               RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
               MR, NE, SN, TD, TG
      AU 2005238194          A1    20051110    AU 2005-238194              20050429
      CA 2562152             A1    20051110    CA 2005-2562152             20050429
      EP 1740524             A2    20070110    EP 2005-738471              20050429
          R:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
      CN 1950319             A     20070418    CN 2005-80013809            20050429
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MX 2006PA12161	A	20070117	MX 2006-PA12161		20061020
KR 2007008671	A	20070117	KR 2006-722687		20061030
IN 2006CN04021	A	20070810	IN 2006-CN4021		20061101

PRIORITY APPLN. INFO.:   CH 2004-766   A 20040430
                                                    WO 2005-EP4680   W 20050429
OTHER SOURCE(S):   CASREACT 143:459877; MARPAT 143:459877

AB   A process for the preparation of cyclic diketones [e.g., 4-(4-chlorophenylcarbonyloxy)bicyclo[3.2.1]oct-3-en-2-one] is presented.

L6   ANSWER 3 OF 4   HCAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1195899 HCAPLUS
DOCUMENT NUMBER: 143:459792
TITLE: Bromination and oxidative debromination process for
                          the preparation of cyclic diketones from cycloalkenes
INVENTOR(S):   Jackson, David Anthony; Edmunds, Andrew;
                          Bowden, Martin Charles; Brockbank, Ben
PATENT ASSIGNEE(S):   Syngenta Participations A.-G., Switz.; Syngenta
                          Limited
SOURCE: PCT Int. Appl., 16 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005105717	A1	20051110	WO 2005-EP4655	20050429

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          GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
          LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
          NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
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          ZM, ZW
      RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
          AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
          EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
          RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
          MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:   CH 2004-764   A 20040430
OTHER SOURCE(S):   CASREACT 143:459792; MARPAT 143:459792
AB   A bromination and oxidative debromination process for the preparation of cyclic
     diketones (e.g., bicyclo[3.2.1]octane-2,4-dione) from cycloalkenes (e.g.,
     bicyclo[3.2.1]oct-2-ene), in which bromination of a cycloalkene followed
     by treatment of the brominated intermediate (e.g., 2,4,4-
     tribromobicyclo[3.2.1]oct-2-ene) with an aqueous solution of an acid or a base,
     is presented.
REFERENCE COUNT: 3   THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 4   HCAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:756694 HCAPLUS
DOCUMENT NUMBER: 141:277496
TITLE: Process for the preparation of substituted nicotinic
                          acid esters
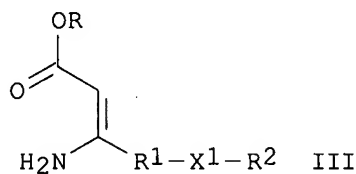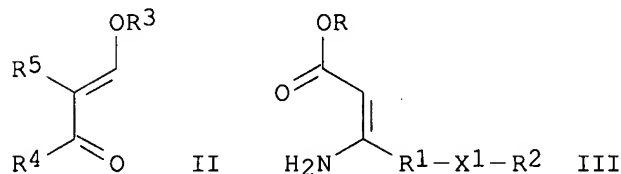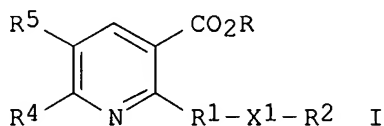INVENTOR(S):   Jackson, David Anthony; Bowden, Martin
                          Charles
PATENT ASSIGNEE(S):   Syngenta Participations A.-G., Switz.

Updated Search

10547840

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004078729	A1	20040916	WO 2004-EP2291	20040305

    W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
       CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
       GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
       LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
    RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
       BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
       MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
       GN, GQ, GW, ML, MR, NE, SN, TD, TG

| AU 2004218241 | A1 | 20040916 | AU 2004-218241 | 20040305 |
| EP 1601653 | A1 | 20051207 | EP 2004-717574 | 20040305 |

    R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
       IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

CN 1753872	A	20060329	CN 2004-80004908	20040305
BR 2004008160	A	20060411	BR 2004-8160	20040305
JP 2006519803	T	20060831	JP 2006-504564	20040305
US 2006199964	A1	20060907	US 2005-547840	20050906
IN 2005CN02175	A	20070831	IN 2005-CN2175	20050906

PRIORITY APPLN. INFO.:   CH 2003-373   A 20030307
                                        WO 2004-EP2291   W 20040305

OTHER SOURCE(S):   MARPAT 141:277496
GI

AB   A process for the preparation of substituted nicotinic acid esters I [R =
      alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted
      alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy,
      cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO2, etc.], which process
      comprises reacting a compound of formula II [R3 = (cyclo)alkyl, R4 and R4 are
      defined as above] with a compound of formula III (R, R1, R2 and X are
      defined as above) in an inert solvent in the presence of a proton source,
      is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate
      with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-

Updated Search

10547840

ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present
invention provides a novel process producing the title compound at
reasonable cost, in good yield and with good quality.

REFERENCE COUNT: 6   THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Updated Search
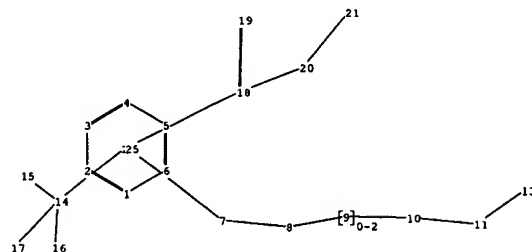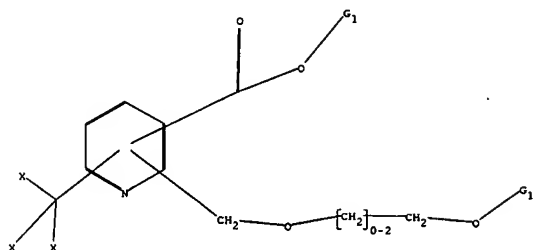
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ring bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
exact/norm bonds :
    11-13   18-19   18-20   20-21
exact bonds :
    7-8   8-9   9-10   10-11   14-17   14-15   14-16
normalized bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
    containing 1 :

G1:CH3,Et

Match level :
    1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   9:CLASS
    10:CLASS   11:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:CLASS
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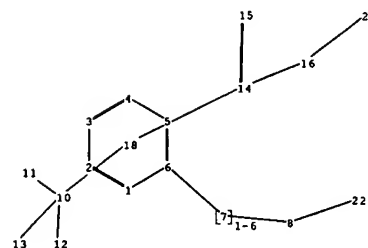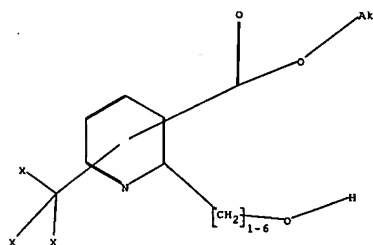
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chain nodes :
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ring nodes :
    1   2   3   4   5   6
chain bonds :
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ring bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
exact/norm bonds :
    14-15   14-16   16-20
exact bonds :
    6-7   7-8   8-22   10-13   10-11   10-12
normalized bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
    containing 1 :


G1:CH3,Et

Connectivity :
    20:1 E exact RC ring/chain
Match level :
    1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   10:CLASS
    11:CLASS   12:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:Atom
    18:Atom   20:CLASS   22:CLASS
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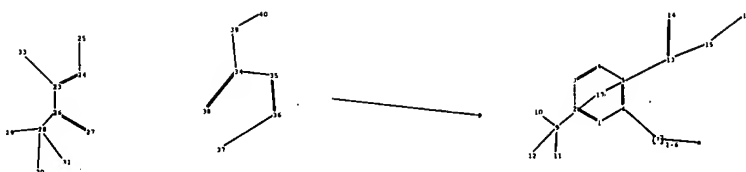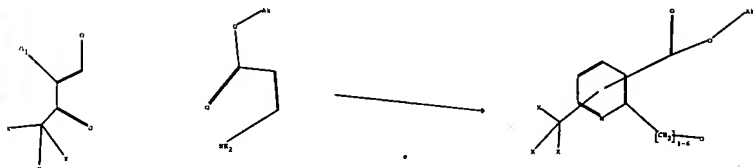
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    34   35   36   37   38   39   40
ring nodes :
    1   2   3   4   5   6
chain bonds :
    6-7   7-8   9-12   9-10   9-11   13-14   13-15   15-19   23-24   23-26   23-33   24-25
    26-27   26-28   28-29   28-30   28-31   34-35   34-38   34-39   35-36   36-37   39-40
ring bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
exact/norm bonds :
    13-14   13-15   15-19   23-33   24-25   26-27   34-38   34-39   36-37   39-40
exact bonds :
    6-7   7-8   9-12   9-10   9-11   23-24   23-26   26-28   28-29   28-30   28-31   34-35
    35-36
normalized bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
    containing 1 :

G1:Cy,Ak

Connectivity :
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Match level :
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    17:Atom   19:CLASS   23:CLASS   24:CLASS   25:CLASS   26:CLASS   27:CLASS
    28:CLASS   29:CLASS   30:CLASS   31:CLASS   33:CLASS   34:CLASS   35:CLASS
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    containing 34
fragments assigned product role:

containing 1.
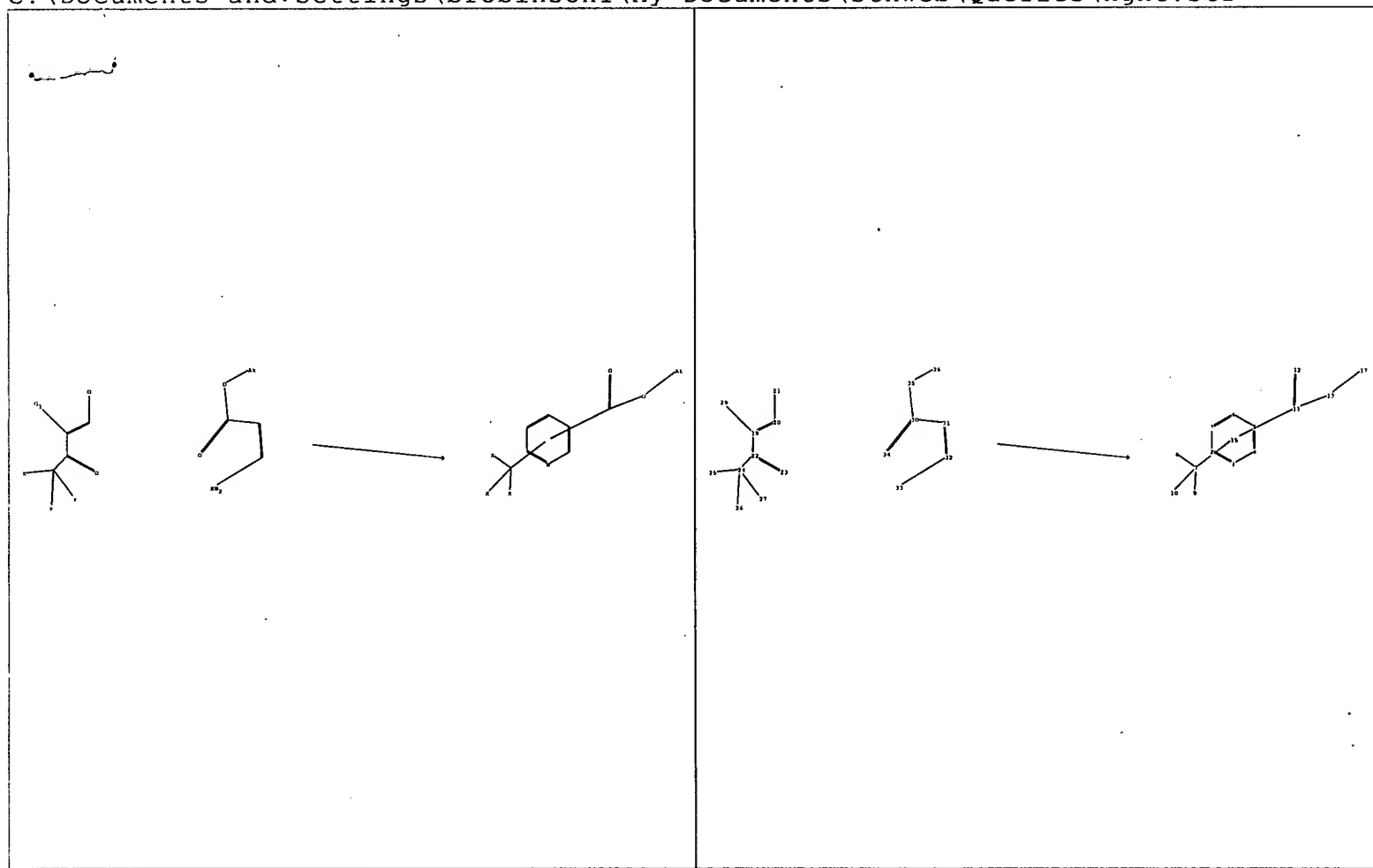
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    32   33   34   35   36
ring nodes :
    1   2   3   4   5   6
chain bonds :
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    22-24   24-25   24-26   24-27   30-31   30-34   30-35   31-32   32-33   35-36
ring bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
exact/norm bonds :
    11-12   11-13   13-17   19-29   20-21   22-23   30-34   30-35   32-33   35-36
exact bonds :
    7-10   7-8   7-9   19-20   19-22   22-24   24-25   24-26   24-27   30-31   31-32
normalized bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
    containing 1 :

G1:Cy,Ak

Connectivity :
    17:1 E exact RC ring/chain
Match level :
    1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   9:CLASS
    10:CLASS   11:CLASS   12:CLASS   13:CLASS   14:Atom   15:Atom   17:CLASS
   19:CLASS   20:CLASS   21:CLASS   22:CLASS   23:CLASS   24:CLASS   25:CLASS
    26:CLASS   27:CLASS   29:CLASS   30:CLASS   31:CLASS   32:CLASS   33:CLASS
    34:CLASS   35:CLASS   36:CLASS
fragments assigned reactant role:
    containing 19
    containing 30
fragments assigned product role:

containing 1.

chain nodes :
    7   8   9   10   11   12   13   17   20
ring nodes :
    1   2   3   4   5   6
chain bonds :
    6-20   7-10   7-8   7-9   11-12   11-13   13-17
ring bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
exact/norm bonds :
    6-20   11-12   11-13   13-17
exact bonds :
    7-10   7-8   7-9
normalized bonds :
    1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
    containing 1 :

G1:Cy,Ak

Connectivity :
    17:1 E exact RC ring/chain
Match level :
    1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   9:CLASS
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    20:CLASS
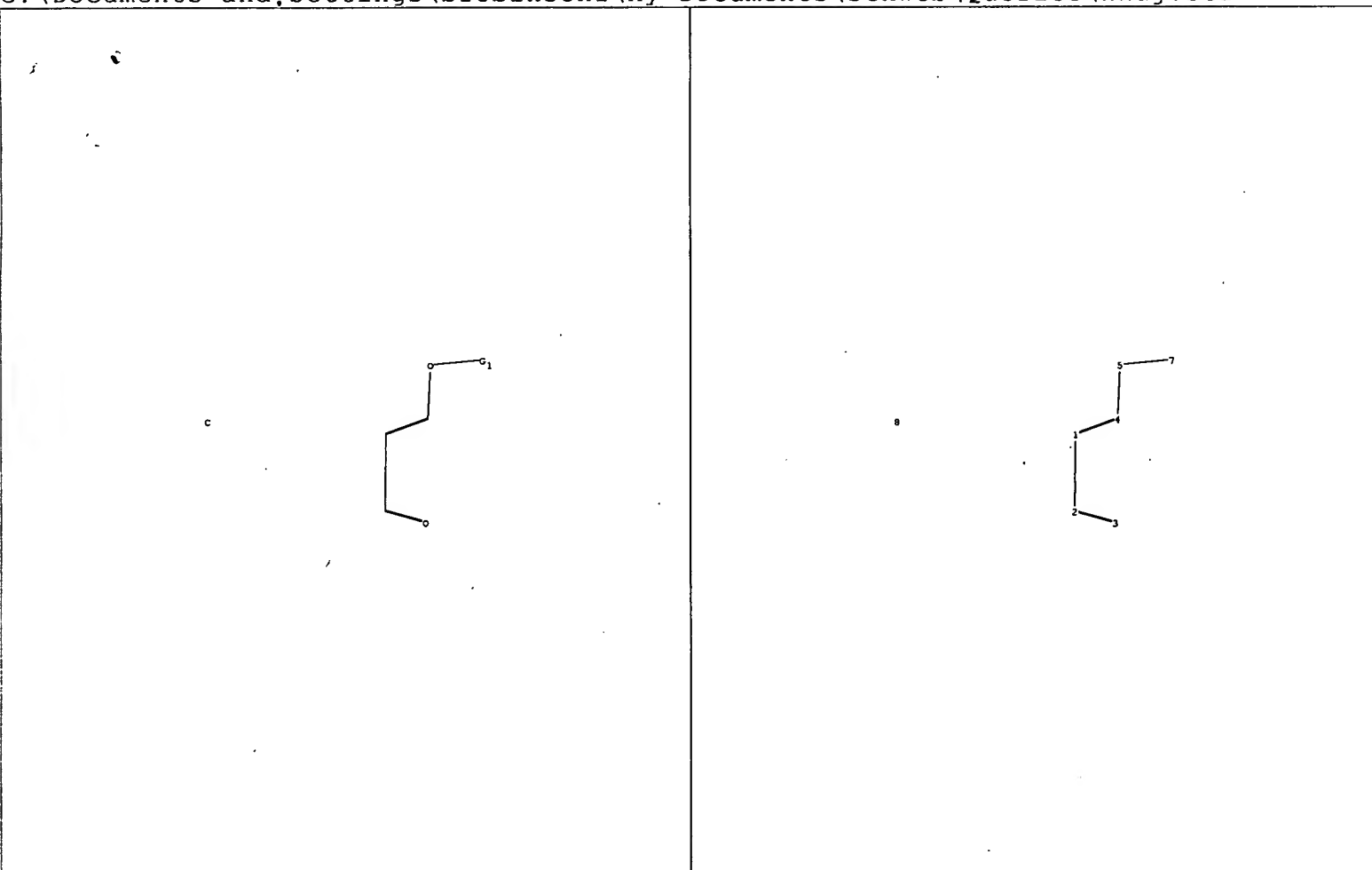
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chain bonds :
    1-2   1-4   2-3   4-5   5-7
exact/norm bonds :
    2-3   4-5   5-7
exact bonds :
    1-2   1-4


G1:Cy,Ak

Match level :
    1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   7:CLASS   8:CLASS
```
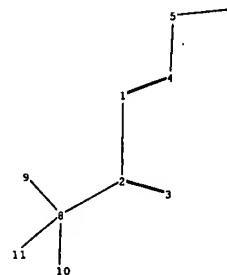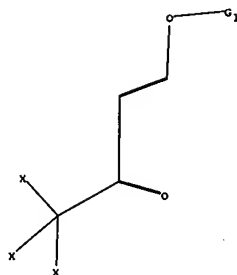
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chain bonds :
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exact/norm bonds :
    2-3   4-5   5-7
exact bonds :
    1-2   1-4   2-8   8-9   8-10   8-11

G1:Cy,Ak

Match level :
    1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   7:CLASS   8:CLASS   9:CLASS
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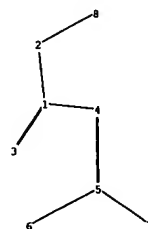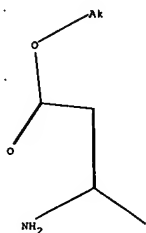
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chain nodes :
    1   2   3   4   5   6   7   8
chain bonds :
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exact/norm bonds :
    1-2   1-3   2-8   5-6
exact bonds :
    1-4   4-5   5-7


Connectivity :
    8:1 E exact RC ring/chain
Match level :
    1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   7:CLASS   8:CLASS
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    NEWS 1   Web Page for STN Seminar Schedule - N. America
    NEWS 2   JUL 02   LMEDLINE coverage updated
    NEWS 3   JUL 02   SCISEARCH enhanced with complete author names
    NEWS 4   JUL 02   CHEMCATS accession numbers revised
    NEWS 5   JUL 02   CA/CAplus enhanced with utility model patents from China
    NEWS 6   JUL 16   CAplus enhanced with French and German abstracts
    NEWS 7   JUL 18   CA/CAplus patent coverage enhanced
    NEWS 8   JUL 26   USPATFULL/USPAT2 enhanced with IPC reclassification
    NEWS 9   JUL 30   USGENE now available on STN
    NEWS 10   AUG 06   CAS REGISTRY enhanced with new experimental property tags
    NEWS 11   AUG 06   BEILSTEIN updated with new compounds
    NEWS 12   AUG 06   FSTA enhanced with new thesaurus edition
    NEWS 13   AUG 13   CA/CAplus enhanced with additional kind codes for granted
                        patents
    NEWS 14   AUG 20   CA/CAplus enhanced with CAS indexing in pre-1907 records
    NEWS 15   AUG 27   Full-text patent databases enhanced with predefined
                        patent family display formats from INPADOCDB
    NEWS 16   AUG 27   USPATOLD now available on STN
    NEWS 17   AUG 28   CAS REGISTRY enhanced with additional experimental
                        spectral property data
    NEWS 18   SEP 07   STN AnaVist, Version 2.0, now available with Derwent
                        World Patents Index
    NEWS 19   SEP 13   FORIS renamed to SOFIS
    NEWS 20   SEP 13   INPADOCDB enhanced with monthly SDI frequency
    NEWS 21   SEP 17   CA/CAplus enhanced with printed CA page images from
                        1967-1998
    NEWS 22   SEP 17   CAplus coverage extended to include traditional medicine
                        patents

    NEWS EXPRESS   19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
                   CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                   AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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    NEWS LOGIN   Welcome Banner and News Items
    NEWS IPC8   For general information regarding STN implementation of IPC 8

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Updated Search

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FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007

=> file reg

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FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1
DICTIONARY FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

   Please note that search-term pricing does apply when
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on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My
Documents\stnweb\Queries\wrwerewg.str

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

Updated Search

G1 Me,Et
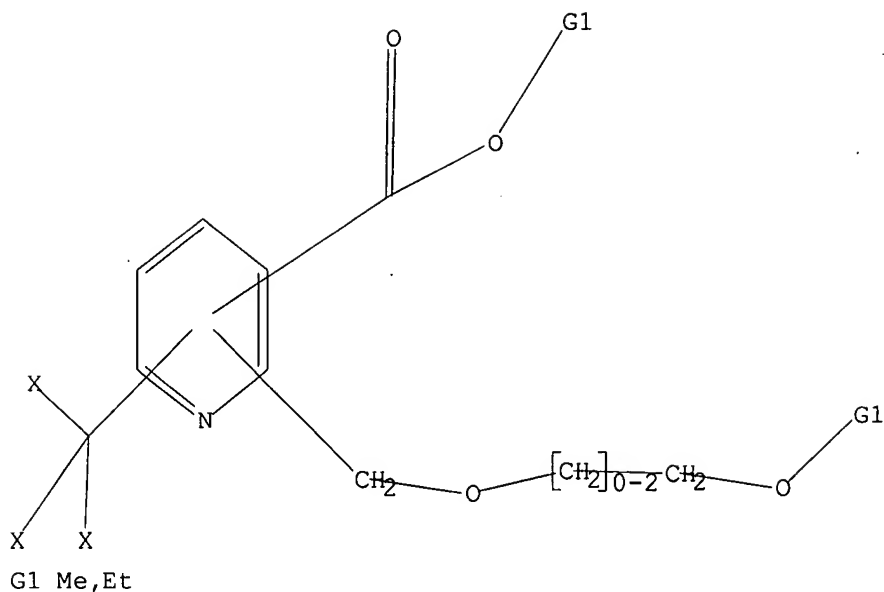
Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SEARCH INITIATED 19:38:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      309 TO ITERATE

100.0% PROCESSED      309 ITERATIONS                        0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:        5126 TO      7234
PROJECTED ANSWERS:              0 TO         0

L2            0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:38:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      5749 TO ITERATE

100.0% PROCESSED     5749 ITERATIONS                        2 ANSWERS
SEARCH TIME: 00.00.01

L3            2 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                         SINCE FILE       TOTAL
                                                ENTRY       SESSION
FULL ESTIMATED COST                            174.80        175.01

FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
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Updated Search
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L4            2 L3

=> d l4, ibib abs hitstr, 1-2
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L4   ANSWER 1 OF 2   HCAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:756694 HCAPLUS
DOCUMENT NUMBER: 141:277496
TITLE: Process for the preparation of substituted nicotinic
                         acid esters
INVENTOR(S):   Jackson, David Anthony; Bowden, Martin Charles
PATENT ASSIGNEE(S):   Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 98 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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        PATENT NO.           KIND  DATE        APPLICATION NO.          DATE
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        WO 2004078729        A1    20040916    WO 2004-EP2291           20040305
            W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
                LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
            RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
                BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
                MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
                GN, GQ, GW, ML, MR, NE, SN, TD, TG
        AU 2004218241        A1    20040916    AU 2004-218241           20040305
        EP 1601653           A1    20051207    EP 2004-717574           20040305
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                IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
        CN 1753872           A     20060329    CN 2004-80004908         20040305
        BR 2004008160        A     20060411    BR 2004-8160             20040305
        JP 2006519803        T     20060831    JP 2006-504564           20040305
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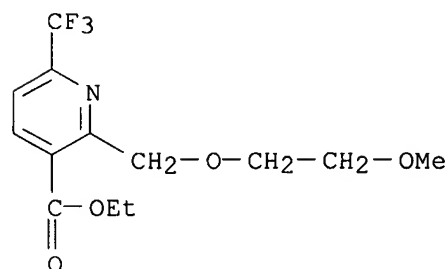

Updated Search

10547840

AB   A process for the preparation of substituted nicotinic acid esters I [R =
     alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted
     alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy,
     cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO2, etc.], which process
     comprises reacting a compound of formula II [R3 = (cyclo)alkyl, R4and R4 are
     defined as above] with a compound of formula III (R, R1, R2 and X are
     defined as above) in an inert solvent in the presence of a proton source,
     is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate
     with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-
     ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present
     invention provides a novel process producing the title compound at
     reasonable cost, in good yield and with good quality.
IT   757218-51-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of nicotinic acid esters)
RN   757218-51-2   HCAPLUS
CN   3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-
     , ethyl ester (9CI)   (CA INDEX NAME)

REFERENCE COUNT: 6   THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Updated Search

L4   ANSWER 2 OF 2   HCAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:497334   HCAPLUS
DOCUMENT NUMBER: 105:97334
TITLE: Substituted 4,6-alkoxypyridinecarboxylate compounds
INVENTOR(S):   Lee, Len Fang
PATENT ASSIGNEE(S):   Monsanto Co. , USA
SOURCE: Eur. Pat. Appl., 49 pp.
                             CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 181311	A2	19860514	EP 1985-870150	19851105
EP 181311	A3	19880713		
EP 181311	B1	19900829		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4609399	A	19860902	US 1984-668790	19841106
AU 8549336	A	19860529	AU 1985-49336	19851104
AU 574857	B2	19880714		
JP 61115070	A	19860602	JP 1985-247867	19851105
JP 06057697	B	19940803		
ZA 8508501	A	19860827	ZA 1985-8501	19851105
CA 1230122	A1	19871208	CA 1985-494605	19851105
AT 55990	T	19900915	AT 1985-870150	19851105
US 4741766	A	19880503	US 1986-869490	19860602

PRIORITY APPLN. INFO.:   US 1984-668790   A 19841106
                                             EP 1985-870150   A 19851105

OTHER SOURCE(S):   CASREACT 105:97334; MARPAT 105:97334
GI
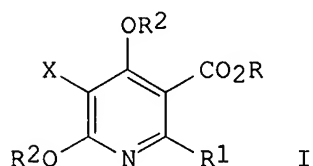
AB   Pyridinecarboxylates I [R = H, alkyl, alkenyl, alkynyl, haloalkyl,
      haloalkenyl; R1 = fluorinated or chlorofluorinated Me; R2 = H, alkyl; X =
      H, CO2R3, CONR4R5, cyano, alkyl, haloalkyl, alkoxyalkoxyalkyl, cyanoalkyl,
      carbalkoxyalkyl; R3 = H, alkyl, alkenyl, alkynyl, haloalkyl; R4, R5 = H,
      alkyl] are prepared as herbicides or intermediates thereof. Thus,
      cyclocondensation of EtO2CC.tplbond.CCO2Et with CF3CN in the presence of
      KOCMe3 gave 95% I (R = Et, R1 = CF3, R2 = X = H), which was methylated by
      K2CO3-MeI to give 64.5% I (R = Et, R1 = CF3, R2 = Me, X = H). This compound
      was lithiated by (Me2CH)2NLi at -78°, followed by carboxylation
      with Dry Ice, to give 95% I (R = Et, R1 = CF3, R2 = Me, X = CO2H), which
      was esterified by SOCl2-MeOH to give 42% I (R = Et, R1 = CF3, R2 = Me, X =
      CO2Me) (II). At 1.12 kg/ha (preemergent), II gave 75-100% control of
      several weeds, e.g. barnyard grass, with 0-24% inhibition of wheat and
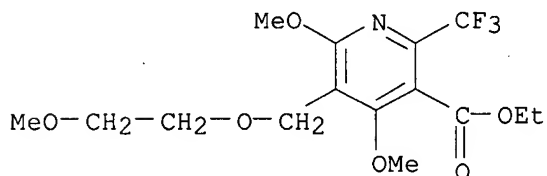   rice.
IT   103901-01-5P

Updated Search

10547840

RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)
RN   103901-01-5 HCAPLUS
CN   3-Pyridinecarboxylic acid, 4,6-dimethoxy-5-[(2-methoxyethoxy)methyl]-2-
(trifluoromethyl)-, ethyl ester (9CI)   (CA INDEX NAME)


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=> file caold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY       SESSION
FULL ESTIMATED COST                              33.94        208.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY       SESSION
CA SUBSCRIBER PRICE                              -1.56         -1.56
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification. Title keywords, authors, patent
   assignees, and patent information, e.g., patent numbers, are
   now searchable from 1907-1966. TIFF images of CA abstracts
   printed between 1907-1966 are available in the PAGE
   display formats.

   New CAS Information Use Policies, enter HELP USAGETERMS for details.

   This file supports REG1stRY for direct browsing and searching of
   all substance data from the REGISTRY file. Enter HELP FIRST for
   more information.

=> d his

      (FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

      FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007
L1   STRUCTURE UPLOADED
L2   0 S L1
L3   2 S L1 FULL

      FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007

Updated Search

10547840

L4   '2 S L3

     FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007

=> s 13
L5   0 L3

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
FULL ESTIMATED COST   0.45   209.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -1.56

FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
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STRUCTURE FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1
DICTIONARY FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My
Documents\stnweb\Queries\23123e.str
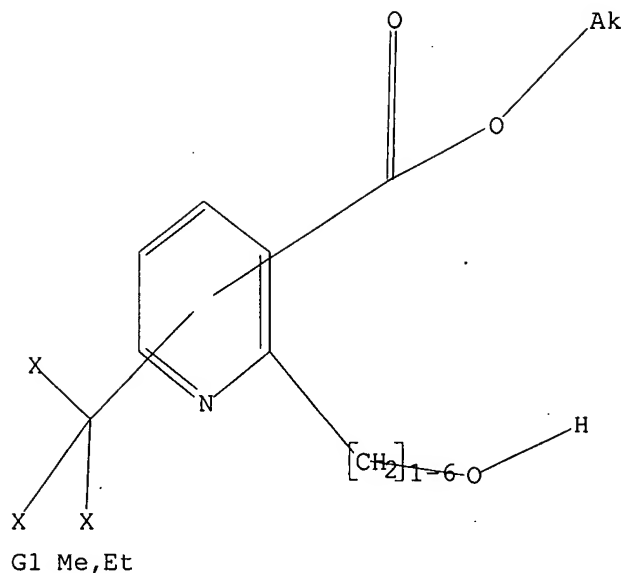
L6   STRUCTURE UPLOADED

=> d 16
L6 HAS NO ANSWERS
L6   STR

Updated Search

10547840

G1 Me,Et

Structure attributes must be viewed using STN Express query preparation.


```
=> s l6
SAMPLE SEARCH INITIATED 19:46:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       595 TO ITERATE

100.0% PROCESSED       595 ITERATIONS                           1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:        10437 TO      13363
PROJECTED ANSWERS:               1 TO         80

L7              1 SEA SSS SAM L6

=> s l6 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:46:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     11029 TO ITERATE

100.0% PROCESSED     11029 ITERATIONS                           1 ANSWERS
SEARCH TIME: 00.00.01

L8              1 SEA SSS FUL L6

=> file hcaplus
COST IN U.S. DOLLARS                           SINCE FILE        TOTAL
                                                   ENTRY       SESSION
FULL ESTIMATED COST                               173.45        382.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)     SINCE FILE        TOTAL
                                                   ENTRY       SESSION
CA SUBSCRIBER PRICE                                 0.00         -1.56


Updated Search
```

=> s 18
L9   1 L8

=> d 19, ibib abs hitstr, 1

L9   ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:92575 HCAPLUS
DOCUMENT NUMBER: 78:92575
TITLE: Antimalarials. 4. 4-Pyridinemethanols with styryl
                         and benzoyl substituents
AUTHOR(S):   LaMontagne, M. P.
CORPORATE SOURCE: Ash Stevens Inc., Detroit, MI, USA
SOURCE: Journal of Medicinal Chemistry (1973), 16(1), 68-72
                         CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English

AB   The most potent antimalarial of 7 styryl-substituted 4-pyridinemethanols
      prepared was α-[(di-n-butylamino)methyl]-2-(4-chlorostyryl)-6-
      (trifluoromethyl)-4-pyridinemethanol-HCl (I) [38897-97-1], which was
      curative against Plasmodium berghei in mice at 20 mg/kg. I was
      synthesized from Et 6-(trifluoromethyl)-2-picoline-4-carboxylate
      [38897-98-2] by oxidation to the 2-pyridylcarbinol acetate with CF3CO3H and
      Ac2O, hydrolysis with NaOEt, oxidation to the aldehyde with SeO2, reaction
      with 4-chlorphenyltriphenylphosphonium methylide [38897-99-3] to introduce
      the styryl group, hydrolysis of the Et ester to the isonicotinic acid, and
      introduction of the side chain by the method of R. E. Lutz, et al. (1946).
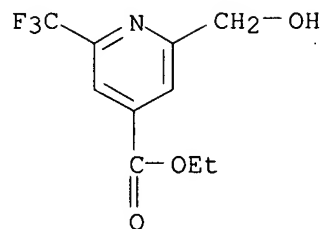IT   39965-94-1P
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of)
RN   39965-94-1 HCAPLUS
CN   4-Pyridinecarboxylic acid, 2-(hydroxymethyl)-6-(trifluoromethyl)-, ethyl
      ester (9CI) (CA INDEX NAME)

Updated Search

10547840

F3C—[pyridine ring]—CH2—OH
C—OEt
‖
O

=> file casreact

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.87	390.72

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-2.34

FILE CONTENT:1840 - 15 Sep 2007 VOL 147 ISS 13

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*********************************************************
*                                                       *
*     CASREACT now has more than 12 million reactions   *
*                                                       *
*********************************************************
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999)
provided by InfoChem, INPI data prior to 1986, and Biotransformations
database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\njikm.str

L10   STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10   STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

Updated Search

```
=> s 110
SAMPLE SEARCH INITIATED 19:53:11 FILE 'CASREACT'
SCREENING COMPLETE -        0 REACTIONS TO VERIFY FROM        0 DOCUMENTS

100.0% DONE        0 VERIFIED        0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED VERIFICATIONS:            0 TO         0
PROJECTED ANSWERS:                  0 TO         0

L11          0 SEA SSS SAM L10 (      0 REACTIONS)

=> s 110 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 113.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:53:15 FILE 'CASREACT'
SCREENING COMPLETE -        6 REACTIONS TO VERIFY FROM        3 DOCUMENTS

100.0% DONE        6 VERIFIED        0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01

L12          0 SEA SSS FUL L10 (      0 REACTIONS)

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\nght.str

L13     STRUCTURE UPLOADED

=> d 113
L13 HAS NO ANSWERS
L13               STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.


=> s 113
SAMPLE SEARCH INITIATED 19:54:49 FILE 'CASREACT'
SCREENING COMPLETE -       13 REACTIONS TO VERIFY FROM        4 DOCUMENTS

100.0% DONE       13 VERIFIED        0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED VERIFICATIONS:           44 TO       476
PROJECTED ANSWERS:                  0 TO         0

L14          0 SEA SSS SAM L13 (      0 REACTIONS)

=> s 113 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 113.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:54:53 FILE 'CASREACT'
```

Updated Search

10547840

SCREENING COMPLETE -   199 REACTIONS TO VERIFY FROM   40 DOCUMENTS

100.0% DONE   199 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

L15   0 SEA SSS FUL L13 (0 REACTIONS)

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
FULL ESTIMATED COST   232.50   623.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -2.34

FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007
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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\fgfg.str

L16   STRUCTURE UPLOADED

=> s l16
SAMPLE SEARCH INITIATED 19:57:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   12361 TO ITERATE

 16.2% PROCESSED   2000 ITERATIONS   17 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 240559 TO   253881
PROJECTED ANSWERS: 1486 TO   2716

Updated Search

10547840

L17   17 SEA SSS SAM L16

=> s l16 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:58:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   247678 TO ITERATE

100.0% PROCESSED   247678 ITERATIONS   2340 ANSWERS
SEARCH TIME: 00.00.03

L18   2340 SEA SSS FUL L16

=> file hcaplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   173.45   796.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                              ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -2.34

FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l18/prep
          380 L18
       4463139 PREP/RL
L19   151 L18/PREP
               (L18 (L) PREP/RL)

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   2.60   799.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                              ENTRY   SESSION

Updated Search

10547840

FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007
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STRUCTURE FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1
DICTIONARY FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\nhuj.str

L20   STRUCTURE UPLOADED.

=> s l20
SAMPLE SEARCH INITIATED 20:02:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   15842 TO ITERATE

 12.6% PROCESSED   2000 ITERATIONS   50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 309302 TO   324378
PROJECTED ANSWERS: 24578 TO   28966

L21   50 SEA SSS SAM L20

=> s l20 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 20:02:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   317398 TO ITERATE

100.0% PROCESSED   317398 ITERATIONS   25690 ANSWERS
SEARCH TIME: 00.00.04

L22   25690 SEA SSS FUL L20

=> file hcaplus

Updated Search

10547840

FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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 substance identification.

```
=> s l22/rct
        12478 L22
      3016177 RCT/RL
L23     6326 L22/RCT
              (L22 (L) RCT/RL)


=> d his

      (FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

      FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007
L1              STRUCTURE UPLOADED
L2          0 S L1
L3          2 S L1 FULL

      FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
L4          2 S L3

      FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007
L5          0 S L3

      FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
L6              STRUCTURE UPLOADED
L7          1 S L6
L8          1 S L6 FULL

      FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007
```

Updated Search

10547840

L9   1 S L8

     FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007
L10   STRUCTURE UPLOADED
L11   0 S L10
L12   0 S L10 FULL
L13   STRUCTURE UPLOADED
L14   0 S L13
L15   0 S L13 FULL

     FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007
L16   STRUCTURE UPLOADED
L17   17 S L16
L18   2340 S L16 FULL

     FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007
L19   151 S L18/PREP

     FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007
L20   STRUCTURE UPLOADED
L21   50 S L20
L22   25690 S L20 FULL

     FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007
L23   6326 S L22/RCT

=> s 123 and 119
L24   28 L23 AND L19

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                          ENTRY   SESSION
FULL ESTIMATED COST   2.60   976.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE   TOTAL
                                          ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -2.34

FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007
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STRUCTURE FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1
DICTIONARY FILE UPDATES: 18 SEP 2007   HIGHEST RN 947490-11-1

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information

Updated Search

10547840

on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html
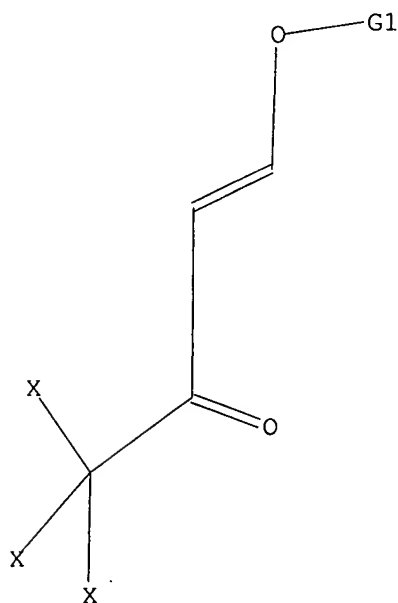
=>
Uploading C:\Documents and Settings\brobinson1\My
Documents\stnweb\Queries\asdfjn.str

L25   STRUCTURE UPLOADED

=> d 125
L25 HAS NO ANSWERS
L25   STR

G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 125
SAMPLE SEARCH INITIATED 20:04:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   501 TO ITERATE

100.0% PROCESSED   501 ITERATIONS   31 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 8678 TO   11362
PROJECTED ANSWERS: 286 TO   954

L26   31 SEA SSS SAM L25

=> s 125 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS

Updated Search

10547840

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 20:04:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   9346 TO ITERATE

100.0% PROCESSED   9346 ITERATIONS   449 ANSWERS
SEARCH TIME: 00.00.01

L27   449 SEA SSS FUL L25

=> file hcaplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
FULL ESTIMATED COST   .   173.00   1149.67   .

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
·CA SUBSCRIBER PRICE   0.00   -2.34

FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007   .
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate   .
 substance identification.

=> s l27/rct
        ·   406 L27
        ·   3016177 RCT/RL
L28   340 L27/RCT
                   (L27 (L) RCT/RL)

=> d his

     (FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

     FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007
L1   STRUCTURE UPLOADED
L2   0 S L1
L3   2 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
L4   2 S L3

Updated Search

10547840

```
       FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007
L5             0 S L3

       FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
L6             STRUCTURE UPLOADED
L7             1 S L6
L8             1 S L6 FULL

       FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007
L9             1 S L8

       FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007
L10            STRUCTURE UPLOADED
L11            0 S L10
L12            0 S L10 FULL
L13            STRUCTURE UPLOADED
L14            0 S L13
L15            0 S L13 FULL

       FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007
L16            STRUCTURE UPLOADED
L17           17 S L16
L18         2340 S L16 FULL

       FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007
L19          151 S L18/PREP

       FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007
L20            STRUCTURE UPLOADED
L21           50 S L20
L22        25690 S L20 FULL

       FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007
L23         6326 S L22/RCT
L24           28 S L23 AND L19

       FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007
L25            STRUCTURE UPLOADED
L26           31 S L25
L27          449 S L25 FULL

       FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007
L28          340 S L27/RCT

=> s l28 and l19
L29           18 L28 AND L19

=> file reg
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	1152.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'REGISTRY' ENTERED AT 20:05:13 ON 19 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

Updated Search

10547840

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\asdnb.str

L30   STRUCTURE UPLOADED

=> s l30
SAMPLE SEARCH INITIATED 20:08:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   3213 TO ITERATE

 62.2% PROCESSED   2000 ITERATIONS   45 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 60861 TO   67659
PROJECTED ANSWERS: 935 TO   1955

L31   45 SEA SSS SAM L30

=> s l30 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 20:08:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   64867 TO ITERATE

100.0% PROCESSED   64867 ITERATIONS   1357 ANSWERS
SEARCH TIME: 00.00.02

L32   1357 SEA SSS FUL L30

=> file hcaplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                       ENTRY   SESSION
FULL ESTIMATED COST   173.90   1326.17

Updated Search

10547840

=> s l32/rct
          2295 L32
       3016177 RCT/RL
L33   1858 L32/RCT
                (L32 (L) RCT/RL)

=> d his

      (FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

      FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007
L1   STRUCTURE UPLOADED
L2   0 S L1
L3   2 S L1 FULL

      FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
L4   2 S L3

      FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007
L5   0 S L3

      FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
L6   STRUCTURE UPLOADED
L7   1 S L6
L8   1 S L6 FULL

      FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007
L9   1 S L8

      FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007
L10   STRUCTURE UPLOADED

Updated Search

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L12             0 S L10 FULL
L13               STRUCTURE UPLOADED
L14             0 S L13
L15             0 S L13 FULL

     FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007
L16               STRUCTURE UPLOADED
L17            17 S L16
L18          2340 S L16 FULL

     FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007
L19           151 S L18/PREP

     FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007
L20               STRUCTURE UPLOADED
L21            50 S L20
L22         25690 S L20 FULL

     FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007
L23          6326 S L22/RCT
L24            28 S L23 AND L19

     FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007
L25               STRUCTURE UPLOADED
L26            31 S L25
L27           449 S L25 FULL

     FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007
L28           340 S L27/RCT
L29            18 S L28 AND L19

     FILE 'REGISTRY' ENTERED AT 20:05:13 ON 19 SEP 2007
L30               STRUCTURE UPLOADED
L31            45 S L30
L32          1357 S L30 FULL

     FILE 'HCAPLUS' ENTERED AT 20:08:09 ON 19 SEP 2007
L33          1858 S L32/RCT

=> s l33 and l29
L34             3 L33 AND L29

=> d l34, ibib abs hitstr, 1-3

L34  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:        2006:538262  HCAPLUS
DOCUMENT NUMBER:         145:45948
TITLE:                   Preparation of substituted pyridines as intermediates
                         in the production of pharmaceutical, chemical and
                         agro-chemical products
INVENTOR(S):             Fisher, Raymond; Lund, Andrew
PATENT ASSIGNEE(S):      Peakdale Molecular Ltd., UK
SOURCE:                  PCT Int. Appl., 51 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:
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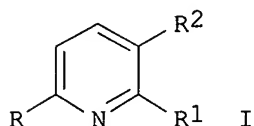
Updated Search

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PATENT NO.              KIND   DATE        APPLICATION NO.            DATE
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WO 2006059103           A2     20060608    WO 2005-GB4596             20051201
WO 2006059103           A3     20070222
     W:   AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
          CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
          GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
          KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
          MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
          SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
          VN, YU, ZA, ZM, ZW
     RW:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
          IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
          CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
          GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
          KG, KZ, MD, RU, TJ, TM
  EP 1824828             A2     20070829    EP 2005-813916             20051201
     R:   AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
          IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
          BA, HR, MK, YU
PRIORITY APPLN. INFO.:                      GB 2004-26576      A   20041203
                                            US 2004-633370P    P   20041203
                                            WO 2005-GB4596     W   20051201
OTHER SOURCE(S):        MARPAT 145:45948
GI
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       R2
      |
  R       N   R1   I
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AB   The present invention relates to substituted pyridines I [R = fluorinated
     alkyl, COR3, CO2R3, etc.; R1 = NR3R3, hydrocarbyl optionally substituted
     by one or more of halo, CO2R4, etc.; R2 = halo, alkyl, NO2, etc.; or R1
     and R2 together form (un)saturated 5-6 membered ring containing 0-3 heteroatoms
     which is further optionally fused to another (un)saturated 5-6 membered ring
     containing 0-3 heteroatoms; R3 = H, halo, CN, etc.; R4 = H, halo, CN, etc.]
     and derivs. thereof, and to a process for preparing these substituted
     pyridines. Synthesis of compds. I was presented in several synthetic
     examples. Thus, reacting (3E)-4-ethoxy-1,1,1-trifluorobut-3-en-3-one with
     Et 3-oxobutanoate afforded 70% I [R = CF3; R1 = Me; R2 = CO2Et]. The
     invention also relates to the use of the substituted pyridines as
     intermediates in the production of pharmaceutical, chemical and agro-chemical
     products.
IT   7318-00-5, Ethyl 3-aminocrotonate 59938-06-6,
     (3E)-4-Ethoxy-1,1,1-trifluorobut-3-en-2-one
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of substituted pyridines as intermediates in production of
        pharmaceutical, chemical and agro-chemical products)
RN   7318-00-5 HCAPLUS
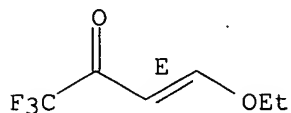CN   2-Butenoic acid, 3-amino-, ethyl ester (CA INDEX NAME)

Updated Search

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$$Me-\underset{\underset{NH_2}{|}}{C}=CH-\underset{\underset{O}{\|}}{C}-OEt$$
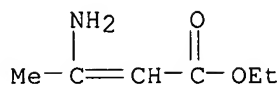
RN   59938-06-6 HCAPLUS
CN   3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro-, (3E)-   (CA INDEX NAME)

Double bond geometry as shown.

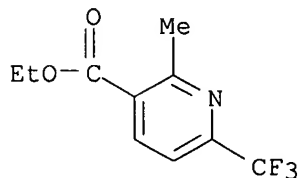IT   380355-65-7P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP
      (Preparation); RACT (Reactant or reagent)
         (preparation of substituted pyridines as intermediates in production of
         pharmaceutical, chemical and agro-chemical products)
RN   380355-65-7 HCAPLUS
CN   3-Pyridinecarboxylic acid, 2-methyl-6-(trifluoromethyl)-, ethyl ester
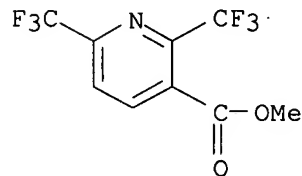   (9CI)   (CA INDEX NAME)

IT   137144-34-4P 280568-09-4P 636588-26-6P
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of substituted pyridines as intermediates in production of
         pharmaceutical, chemical and agro-chemical products)
RN   137144-34-4 HCAPLUS
CN   3-Pyridinecarboxylic acid, 2,6-bis(trifluoromethyl)-, methyl ester (9CI)
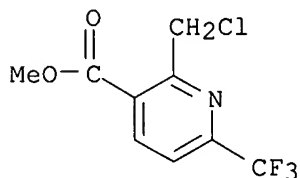   (CA INDEX NAME)

RN   280568-09-4 HCAPLUS
CN   3-Pyridinecarboxylic acid, 2-(chloromethyl)-6-(trifluoromethyl)-, methyl
      ester (9CI)   (CA INDEX NAME)

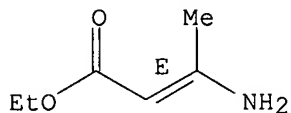Updated Search

$$\text{MeO}-\overset{\displaystyle O}{\overset{\|}{C}}\text{—}$$ pyridine ring with CH2Cl, N, CF3 substituents

RN   636588-26-6   HCAPLUS
CN   3-Pyridinecarboxylic acid, 2-(chloromethyl)-6-(trifluoromethyl)-, ethyl
      ester (9CI)   (CA INDEX NAME)

$$\text{EtO}-\overset{\displaystyle O}{\overset{\|}{C}}\text{—}$$ pyridine ring with CH2Cl, N, CF3 substituents
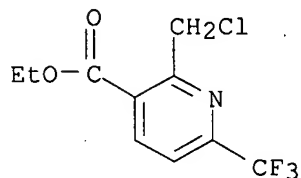
L34 ANSWER 2 OF 3   HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:406839 HCAPLUS
                            Correction of: 2005:155216
DOCUMENT NUMBER: 143:248209
                            Correction of: 142:197768
TITLE: Product class 1: pyridines
AUTHOR(S):   Spitzner, D.
CORPORATE SOURCE: Germany
SOURCE: Science of Synthesis (2005), 15, 11-284
                            CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB   A review of methods to prepare pyridines, pyridine-1-oxides, and pyridinium
     salts. Methods include cyclization, ring transformations, aromatization
     and substituent modification.
IT   41867-20-3 59938-06-6 244139-22-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
     (preparation of pyridines, pyridine-1-oxides and pyridinium salts via
       cyclization, ring transformations, aromatization and substituent
       modification)
RN   41867-20-3 HCAPLUS
CN   2-Butenoic acid, 3-amino-, ethyl ester, (2E)-   (CA INDEX NAME)

Double bond geometry as shown.

$$\text{EtO}-\overset{\displaystyle O}{\overset{\|}{C}}\text{—}\overset{E}{=}\text{—}\overset{Me}{\underset{NH_2}{C}}$$
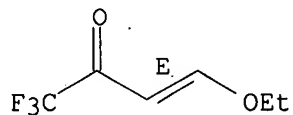
RN   59938-06-6 HCAPLUS
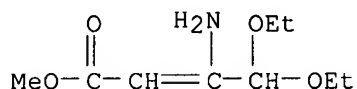CN   3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro-, (3E)-   (CA INDEX NAME)

Updated Search

10547840

Double bond geometry as shown.

RN   244139-22-8   HCAPLUS
CN   2-Butenoic acid, 3-amino-4,4-diethoxy-, methyl ester (9CI)   (CA INDEX
      NAME)

IT   178960-67-3P
      RL: SPN (Synthetic preparation); PREP (Preparation)
          (preparation of pyridines, pyridine-1-oxides and pyridinium salts via
          cyclization, ring transformations, aromatization and substituent
          modification)
RN   178960-67-3   HCAPLUS
CN   3-Pyridinecarboxylic acid, 6-(1,1-dimethylethyl)-2-methyl-4-
      (trifluoromethyl)-, methyl ester (9CI)   (CA INDEX NAME)
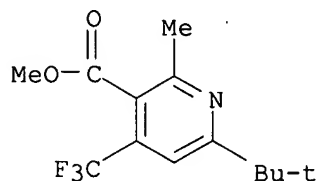
L34 ANSWER 3 OF 3   HCAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:756694 HCAPLUS
DOCUMENT NUMBER: 141:277496
TITLE: Process for the preparation of substituted nicotinic
                          acid esters
INVENTOR(S):   Jackson, David Anthony; Bowden, Martin Charles
PATENT ASSIGNEE(S):   Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 98 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

     PATENT NO.   KIND DATE   APPLICATION NO.   DATE
     ---------------   ---- --------   --------------------   --------
     WO 2004078729   A1   20040916   WO 2004-EP2291   20040305
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
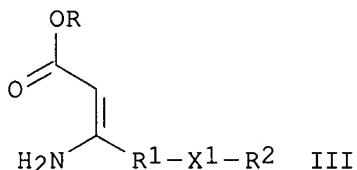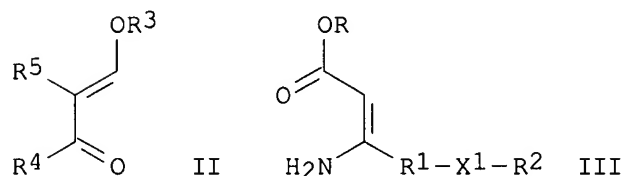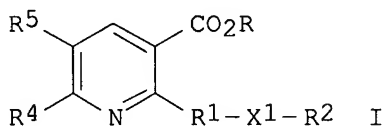   LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI

Updated Search

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004218241	A1	20040916	AU 2004-218241		20040305
EP 1601653	A1	20051207	EP 2004-717574		20040305

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

CN 1753872	A	20060329	CN 2004-80004908		20040305
BR 2004008160	A	20060411	BR 2004-8160		20040305
JP 2006519803	T	20060831	JP 2006-504564		20040305
US 2006199964	A1	20060907	US 2005-547840		20050906
IN 2005CN02175	A	20070831	IN 2005-CN2175		20050906
PRIORITY APPLN. INFO.:			CH 2003-373	A	20030307
			WO 2004-EP2291	W	20040305

OTHER SOURCE(S):   MARPAT 141:277496
GI

AB   A process for the preparation of substituted nicotinic acid esters I [R =
alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted
alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy,
cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO2, etc.], which process
comprises reacting a compound of formula II [R3 = (cyclo)alkyl, R4 and R4 are
defined as above] with a compound of formula III (R, R1, R2 and X are
defined as above) in an inert solvent in the presence of a proton source,
is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate
with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-
ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present
invention provides a novel process producing the title compound at
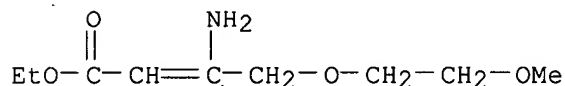reasonable cost, in good yield and with good quality.
IT   17129-06-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of nicotinic acid esters)
RN   17129-06-5 HCAPLUS
CN   3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro- (CA INDEX NAME)
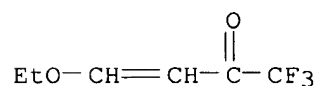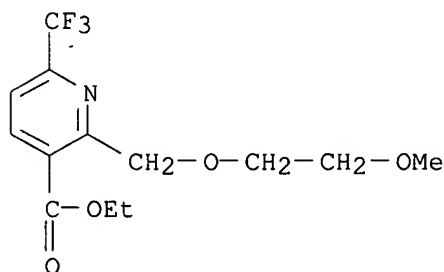

Updated Search

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IT   757218-50-1P
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP
        (Preparation); RACT (Reactant or reagent)
            (preparation of nicotinic acid esters)
RN   757218-50-1 HCAPLUS
CN   2-Butenoic acid, 3-amino-4-(2-methoxyethoxy)-, ethyl ester (9CI)   (CA
        INDEX NAME)

$$\text{EtO}-\overset{\overset{\displaystyle O}{\|}}{C}-CH=\overset{\overset{\displaystyle NH_2}{|}}{C}-CH_2-O-CH_2-CH_2-OMe$$

IT   757218-51-2P
        RL: SPN (Synthetic preparation); PREP (Preparation)
            (preparation of nicotinic acid esters)
RN   757218-51-2 HCAPLUS
CN   3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-
        , ethyl ester (9CI)   (CA INDEX NAME)

REFERENCE COUNT: 6   THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   18.41   1344.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                ENTRY   SESSION
CA SUBSCRIBER PRICE   -2.34   -4.68

FILE 'CAOLD' ENTERED AT 20:08:33 ON 19 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification. Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966. TIFF images of CA abstracts

Updated Search

printed between 1907-1966 are available in the PAGE
display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of
all substance data from the REGISTRY file. Enter HELP FIRST for
more information.

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=> d his

      (FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

      FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007
L1              STRUCTURE UPLOADED
L2           0 S L1
L3           2 S L1 FULL

      FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
L4           2 S L3

      FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007
L5           0 S L3

      FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
L6              STRUCTURE UPLOADED
L7           1 S L6 ·
L8           1 S L6 FULL

      FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007
L9           1 S L8

      FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007
L10             STRUCTURE UPLOADED
L11          0 S L10
L12          0 S L10 FULL
L13             STRUCTURE UPLOADED
L14          0 S L13
L15          0 S L13 FULL

      FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007
L16             STRUCTURE UPLOADED
L17         17 S L16
L18       2340 S L16 FULL

      FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007
L19        151 S L18/PREP

      FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007
L20             STRUCTURE UPLOADED
L21         50 S L20
L22      25690 S L20 FULL

      FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007
L23       6326 S L22/RCT
L24         28 S L23 AND L19

      FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007
L25             STRUCTURE UPLOADED
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Updated Search

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L26          31 S L25
L27         449 S L25 FULL


     FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007
L28         340 S L27/RCT
L29          18 S L28 AND L19


     FILE 'REGISTRY' ENTERED AT 20:05:13 ON 19 SEP 2007
L30             STRUCTURE UPLOADED
L31          45 S L30
L32        1357 S L30 FULL


     FILE 'HCAPLUS' ENTERED AT 20:08:09 ON 19 SEP 2007
L33        1858 S L32/RCT
L34           3 S L33 AND L29


     FILE 'CAOLD' ENTERED AT 20:08:33 ON 19 SEP 2007

=> s l32 and l18
           56 L32
            4 L18
L35           0 L32 AND L18 .
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Updated Search